

Figure 1

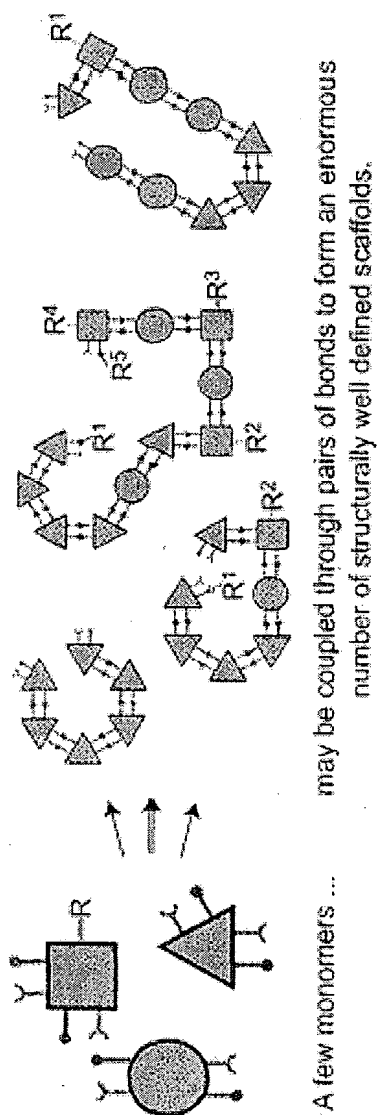


Figure 2

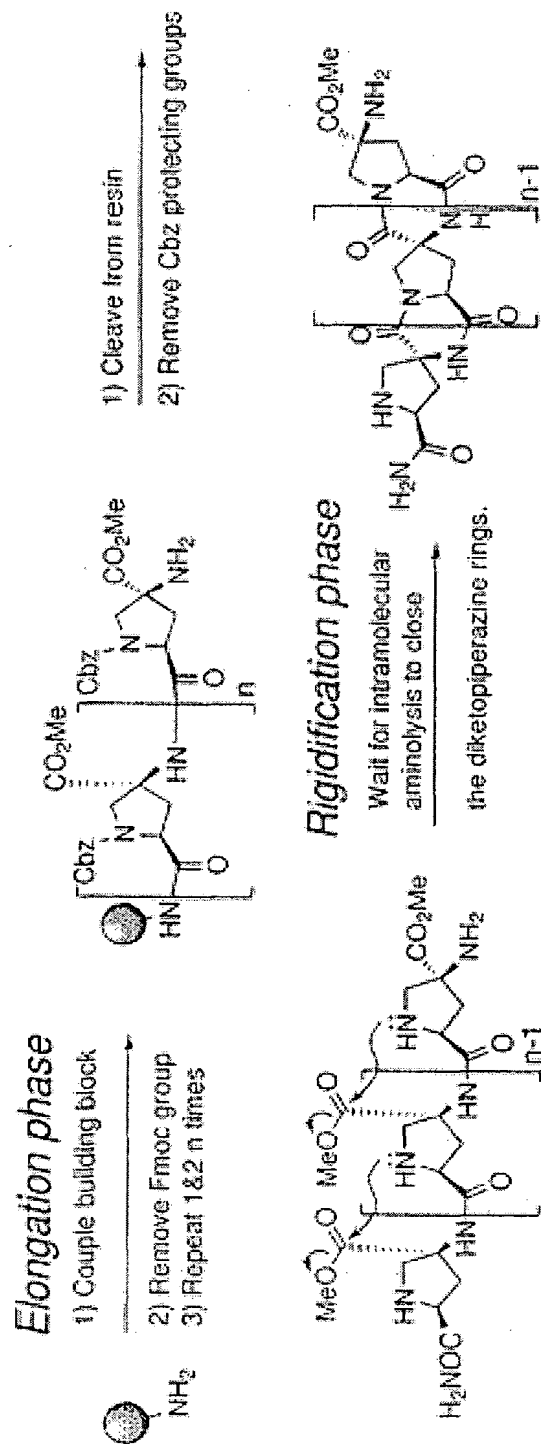


Figure 3

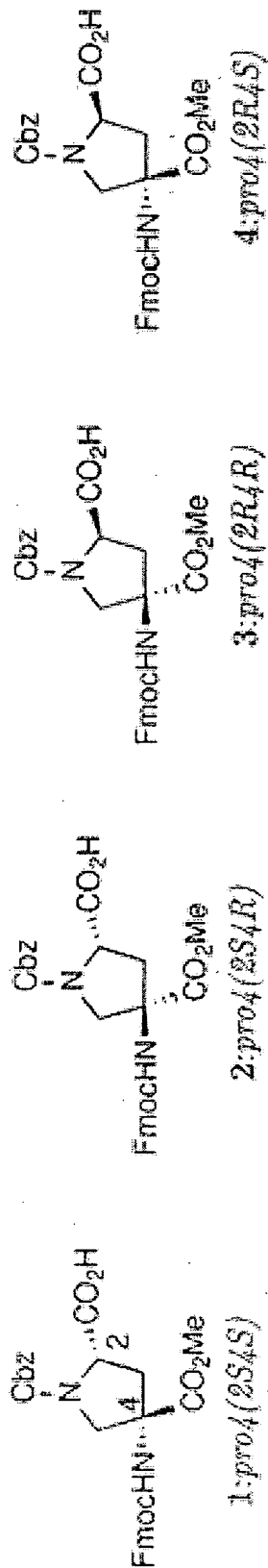


Figure 4

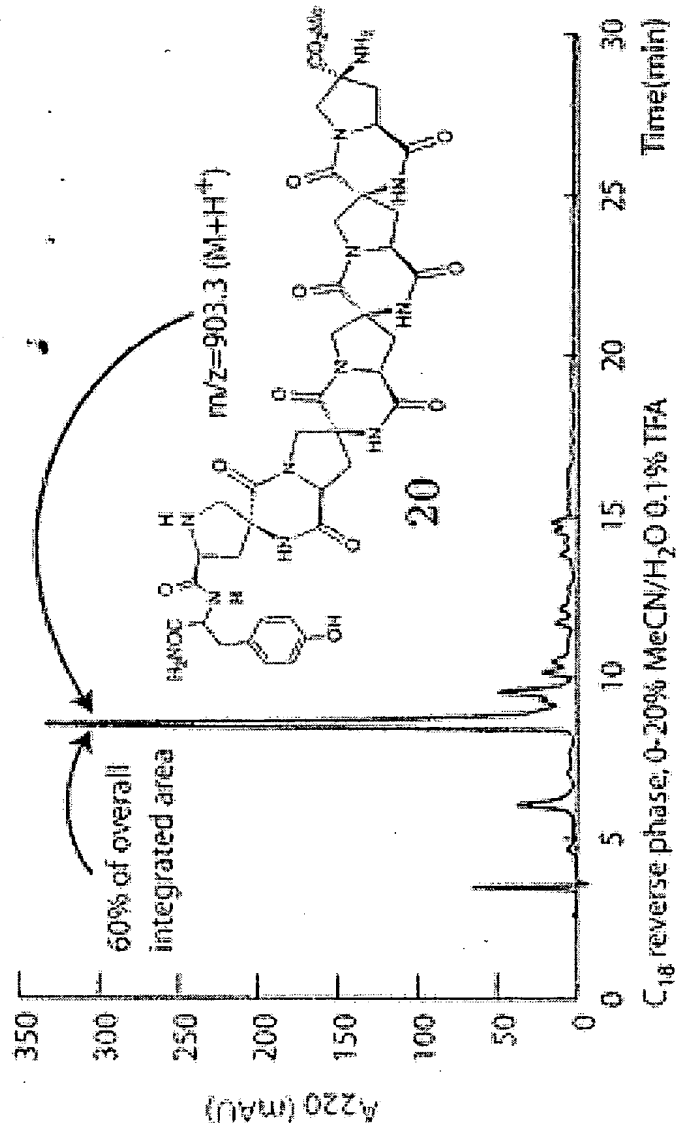


Figure 5

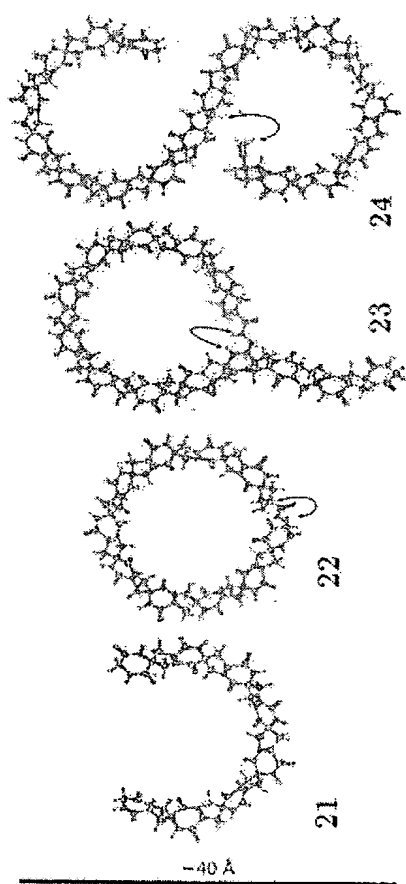


Figure 6

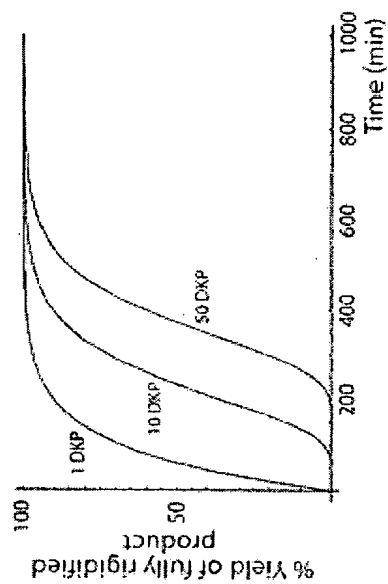


Figure 7

$$P_n(t) = e^{-nkt} (ekt - 1)^n$$

use $k = 0.0116 \text{ min}^{-1}$ ($t_{1/2} = 60 \text{ min}$)
 n = number of diketopiperazines

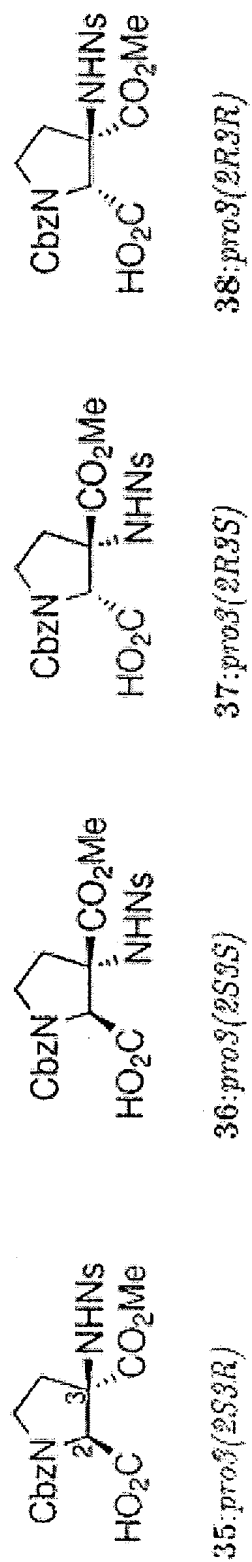


Figure 8

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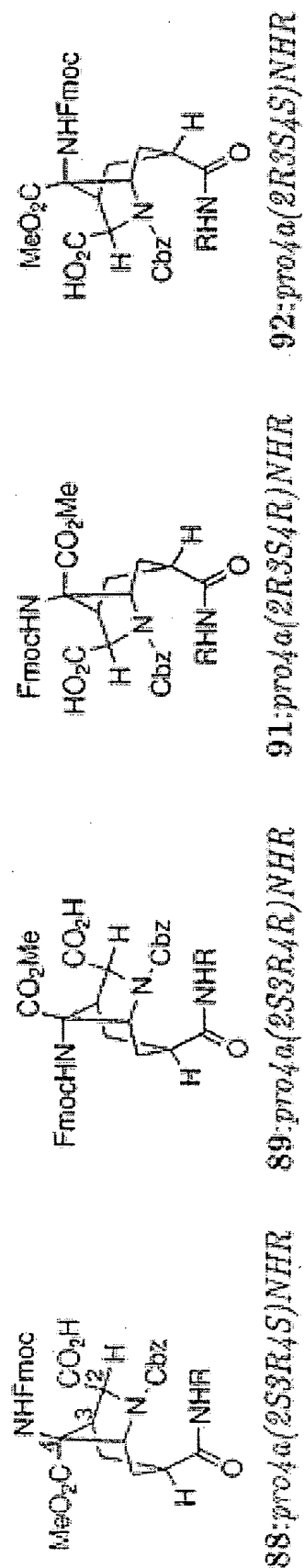


Figure 9

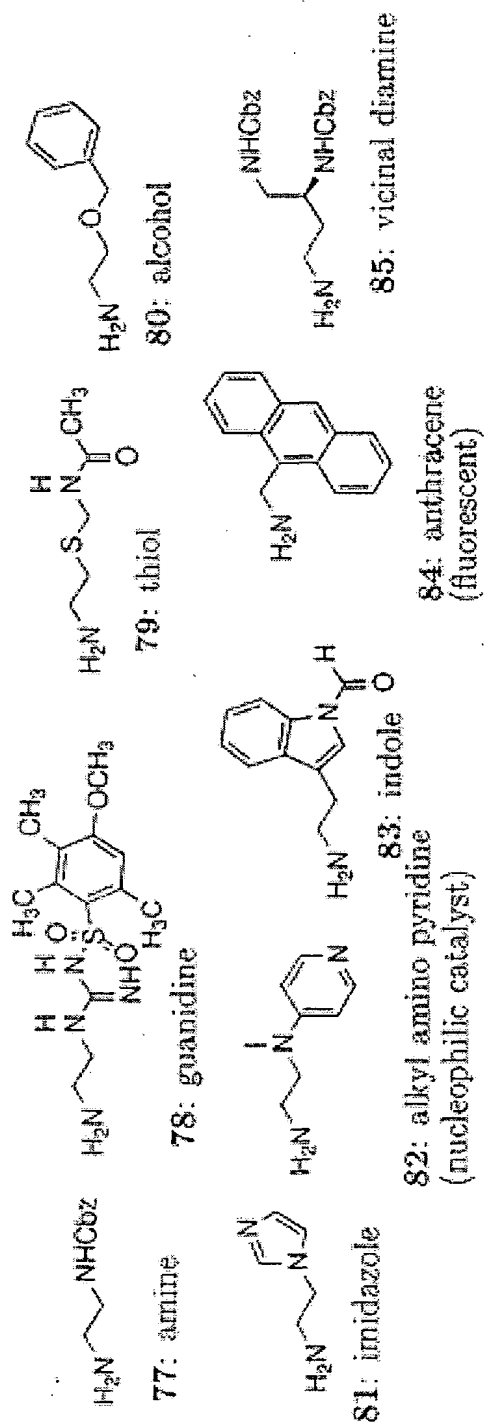


Figure 10

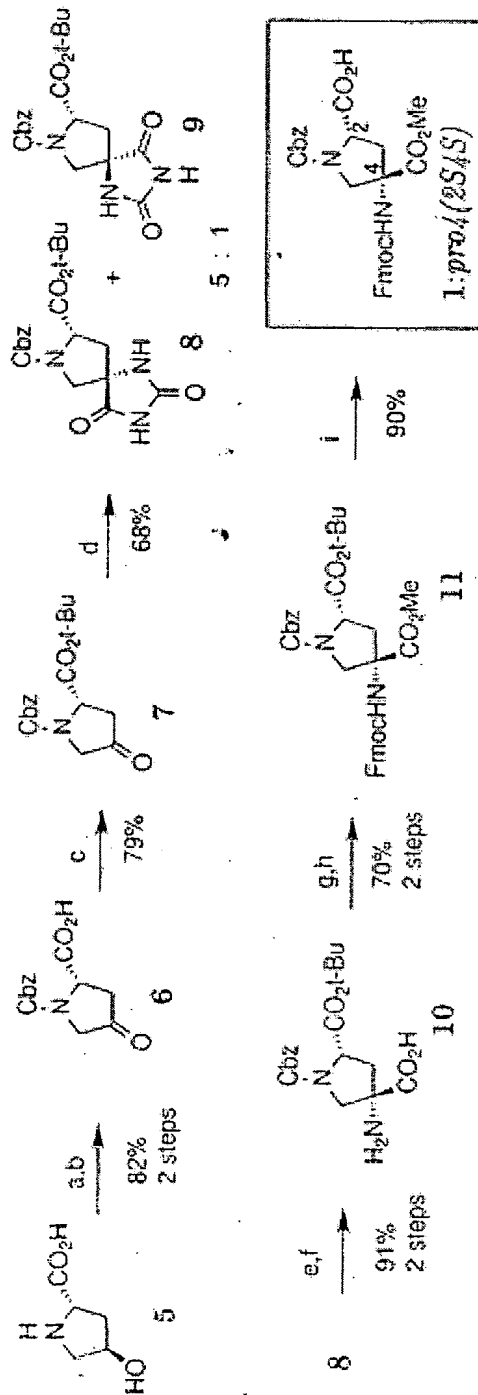


Figure 11

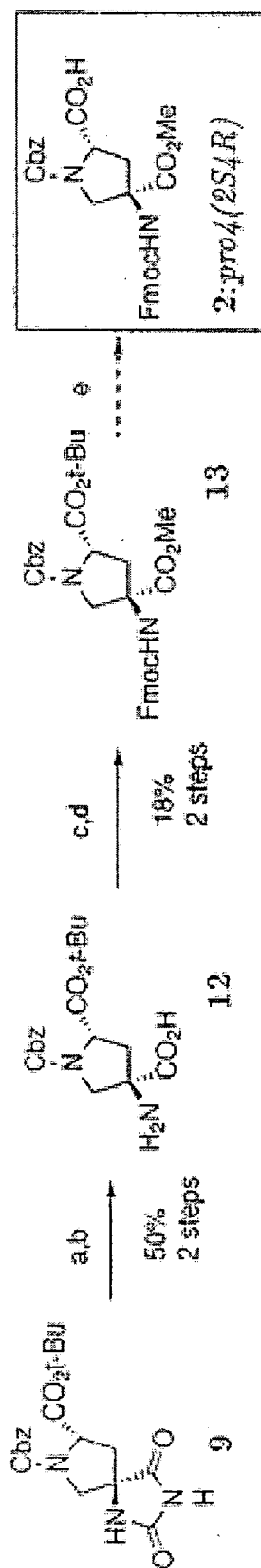


Figure 12

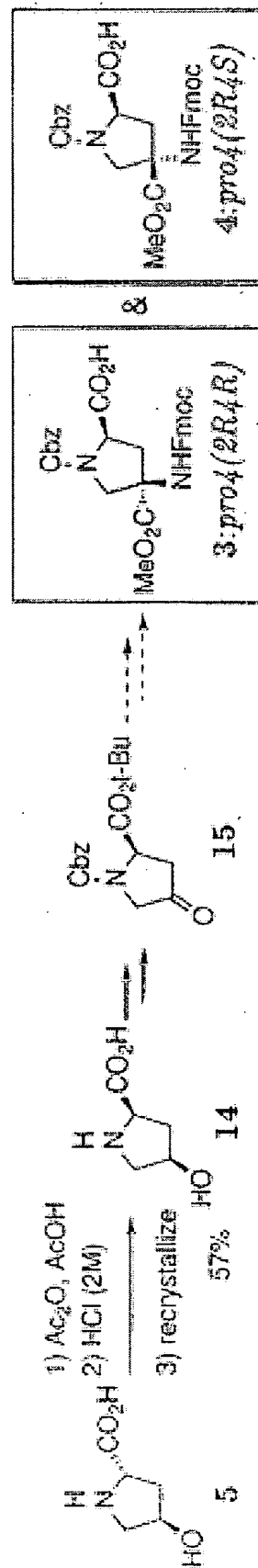


Figure 13

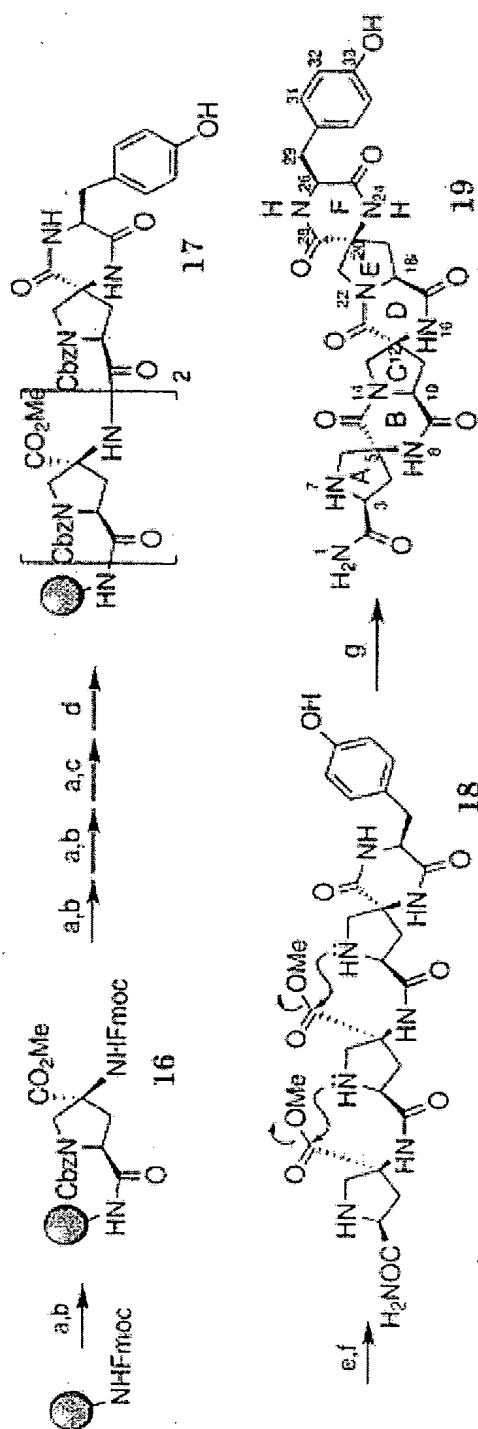


Figure 14



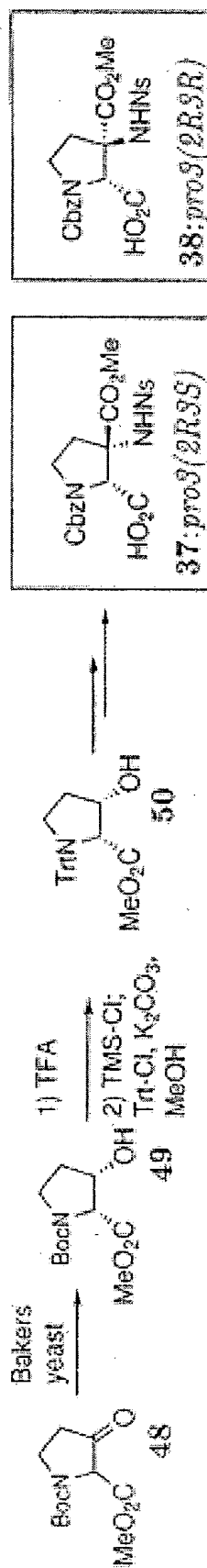


Figure 18

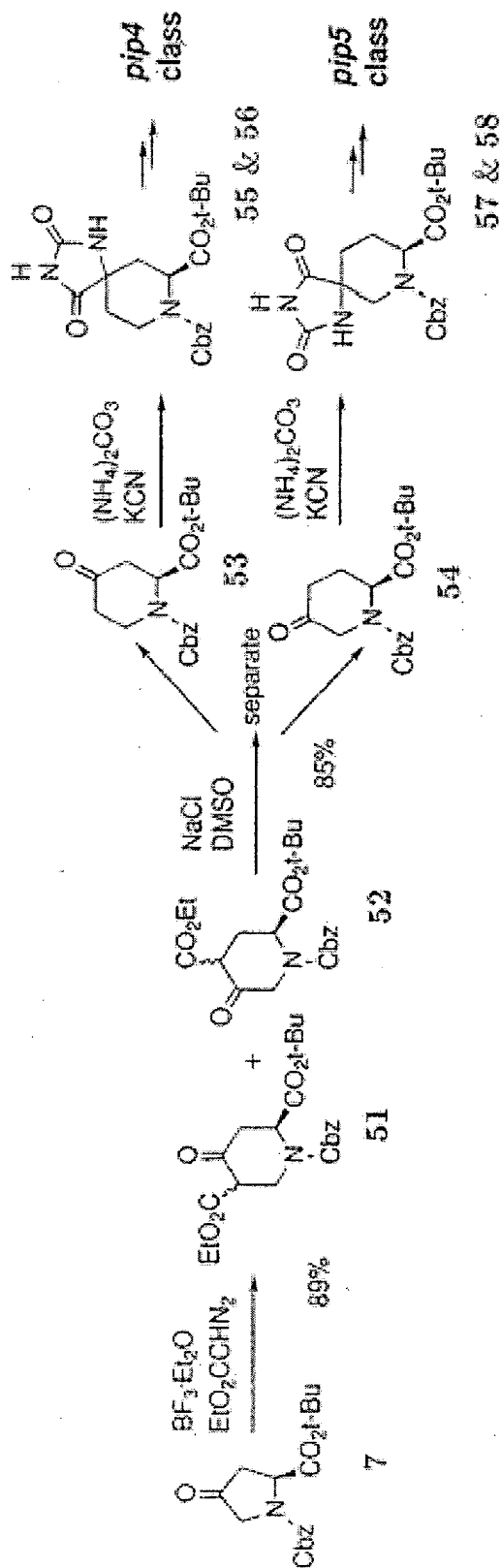


Figure 19

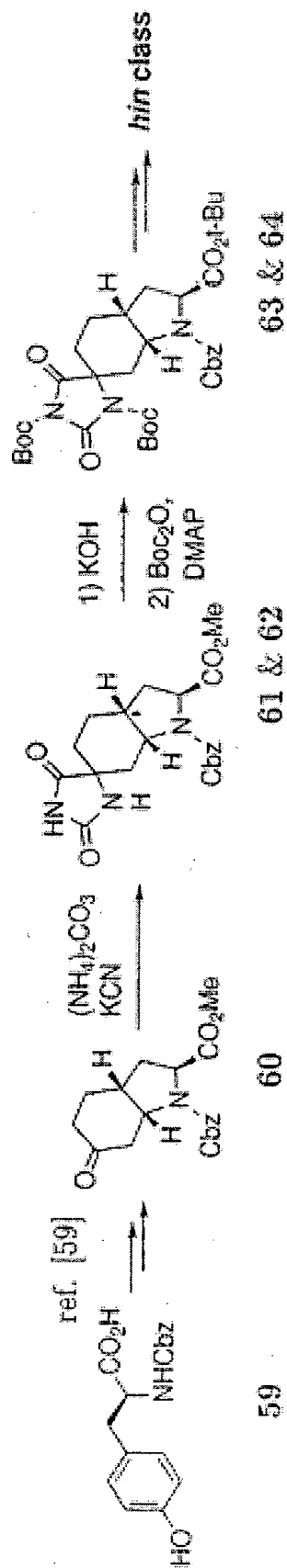


Figure 20

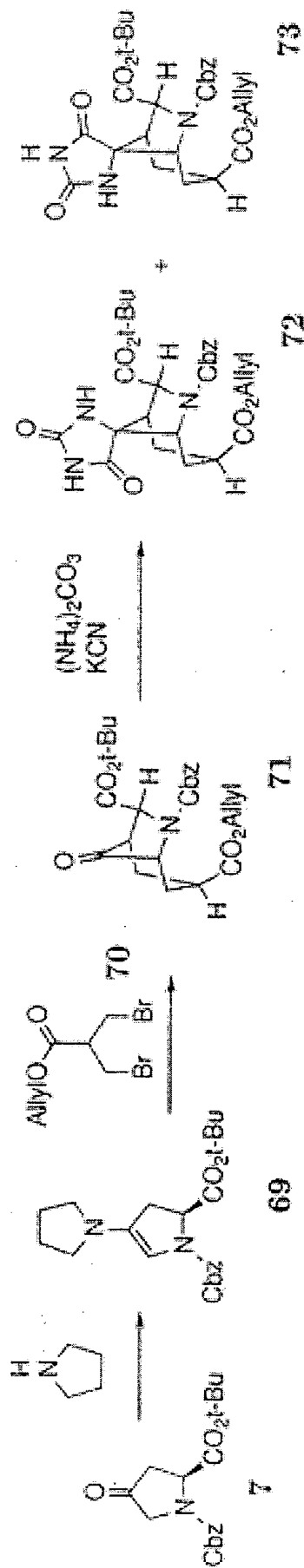


Figure 21

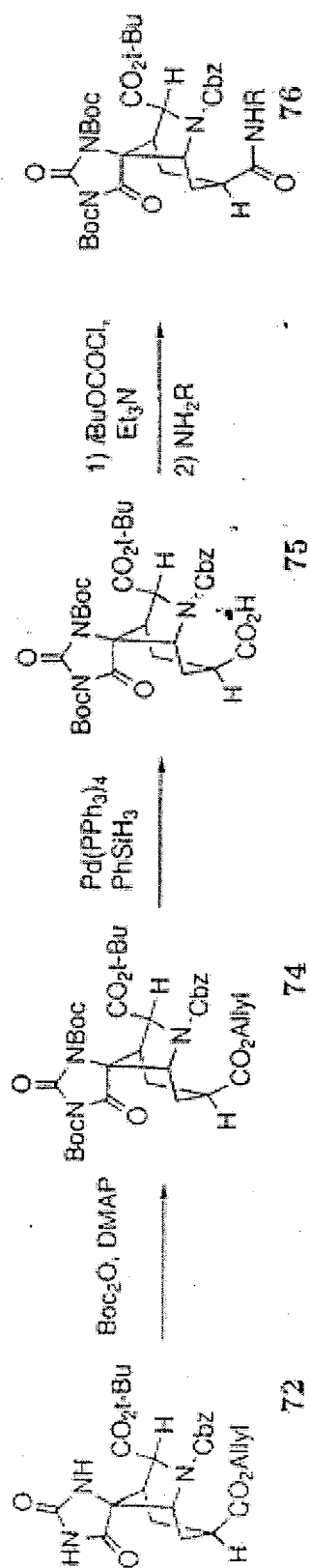


Figure 22

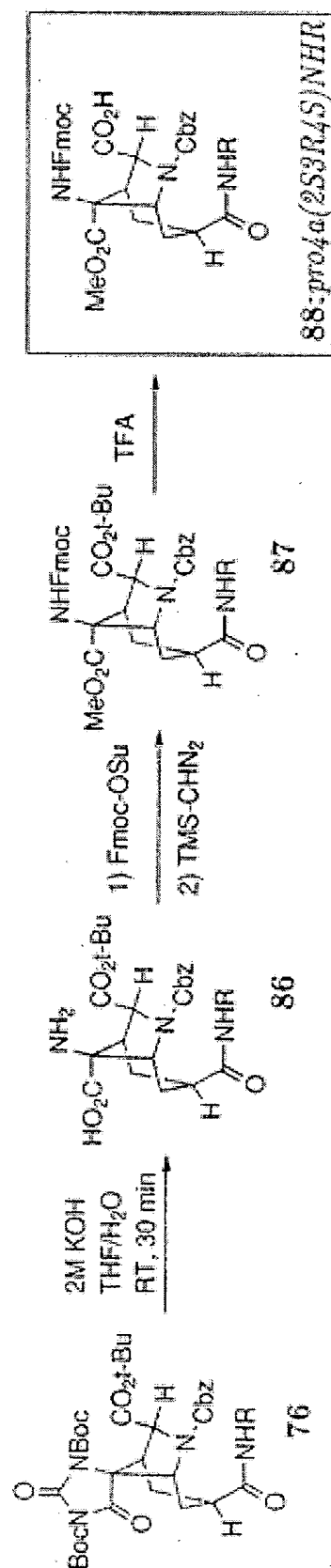


Figure 23

Compound 21 Formula weight: 1081.0 daltons

1	cyclo-Gly	2	1:pro4(2S4S)	3	3:pro4(2R4R)	4	1:pro4(2S4S)
5	3:pro4(2R4R)	6	1:pro4(2S4S)	7	3:pro4(2R4R)	8	1:pro4(2S4S)
9	cyclo-Gly						

Compound 22 Formula weight: 1455.3 daltons

1	H ₂ N-1:pro4(2S4S)	2	3:pro4(2R4R)	3	1:pro4(2S4S)	4	3:pro4(2R4R)
5	1:pro4(2S4S)	6	3:pro4(2R4R)	7	1:pro4(2S4S)	8	3:pro4(2R4R)
9	1:pro4(2S4S)	10	3:pro4(2R4R)	11	cyclo-Gly		

Compound 23 Formula weight: 1869.7 daltons

1	H ₂ N-3:pro4(2R4R)	2	1:pro4(2S4S)	3	3:pro4(2R4R)	4	1:pro4(2S4S)
5	3:pro4(2R4R)	6	1:pro4(2S4S)	7	3:pro4(2R4R)	8	1:pro4(2S4S)
9	3:pro4(2R4R)	10	3:pro4(2R4R)	11	3:pro4(2R4R)	12	3:pro4(2R4R)
13	3:pro4(2R4R)	14	cyclo-Gly				

Compound 24 Formula weight: 2500.0 daltons

1	cyclo-Gly	2	1:pro4(2S4S)	3	3:pro4(2R4R)	4	1:pro4(2S4S)
5	3:pro4(2R4R)	6	1:pro4(2S4S)	7	3:pro4(2R4R)	8	1:pro4(2S4S)
9	3:pro4(2R4R)	10	4:pro4(2R4S)	11	1:pro4(2S4S)	12	1:pro4(2S4S)
13	3:pro4(2R4R)	14	1:pro4(2S4S)	15	3:pro4(2R4R)	16	1:pro4(2S4S)
17	3:pro4(2R4R)	18	1:pro4(2S4S)	19	3:pro4(2R4R)		

Figure 26